



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Portable Power station

Test Model: P5000 PRO

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.709	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.679	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.662	0.5	Pass



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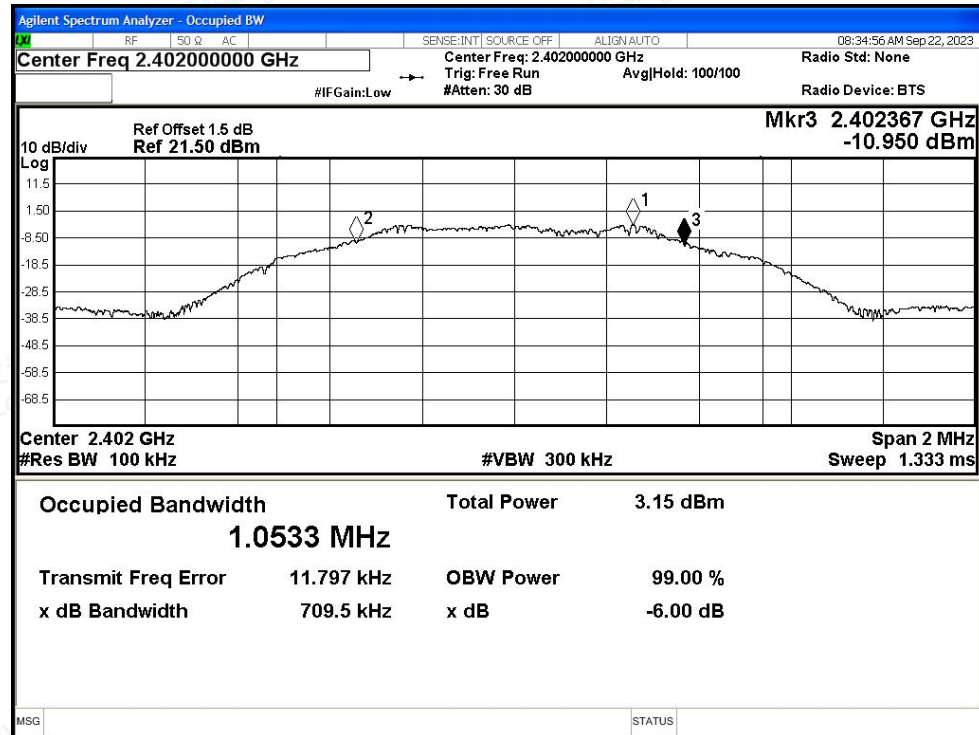
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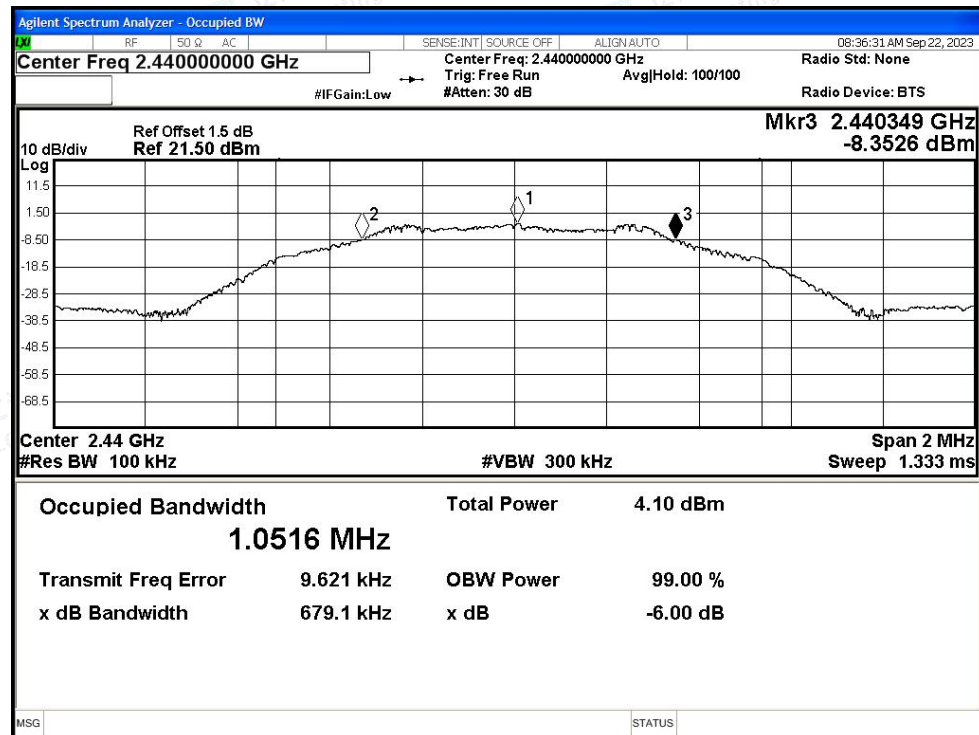


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

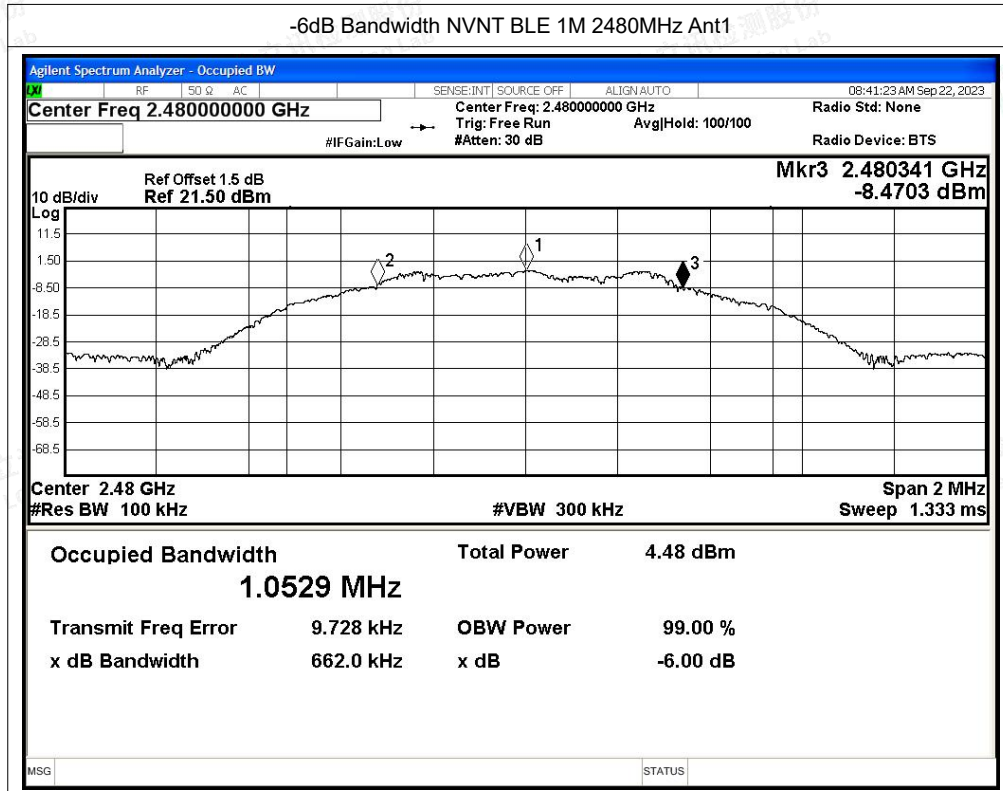


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-2.51	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.64	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.25	30	Pass



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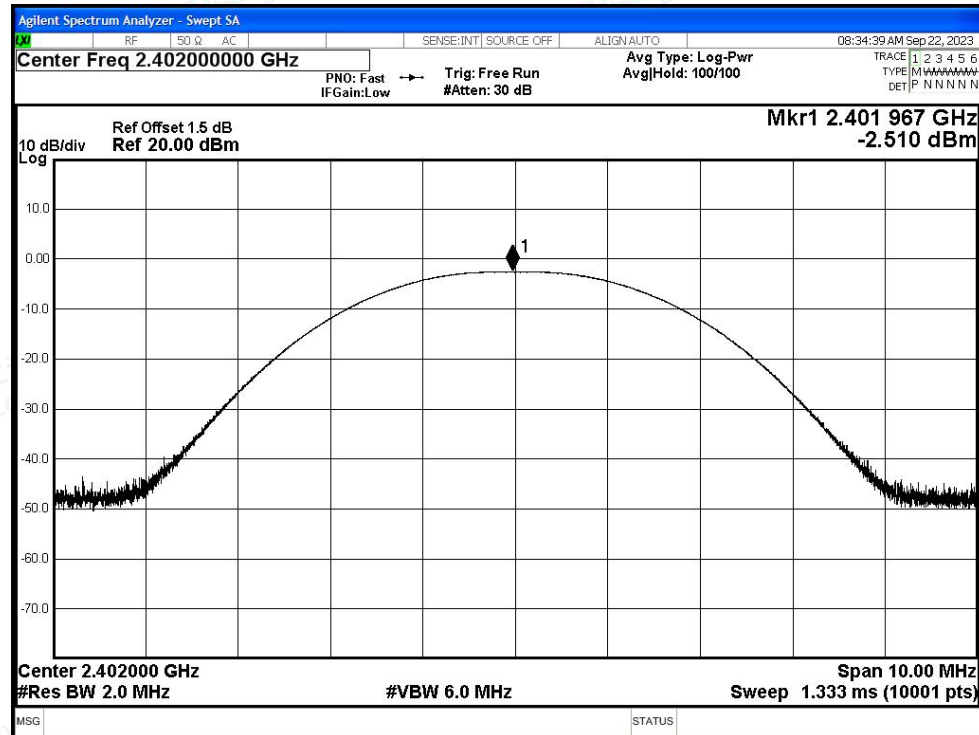
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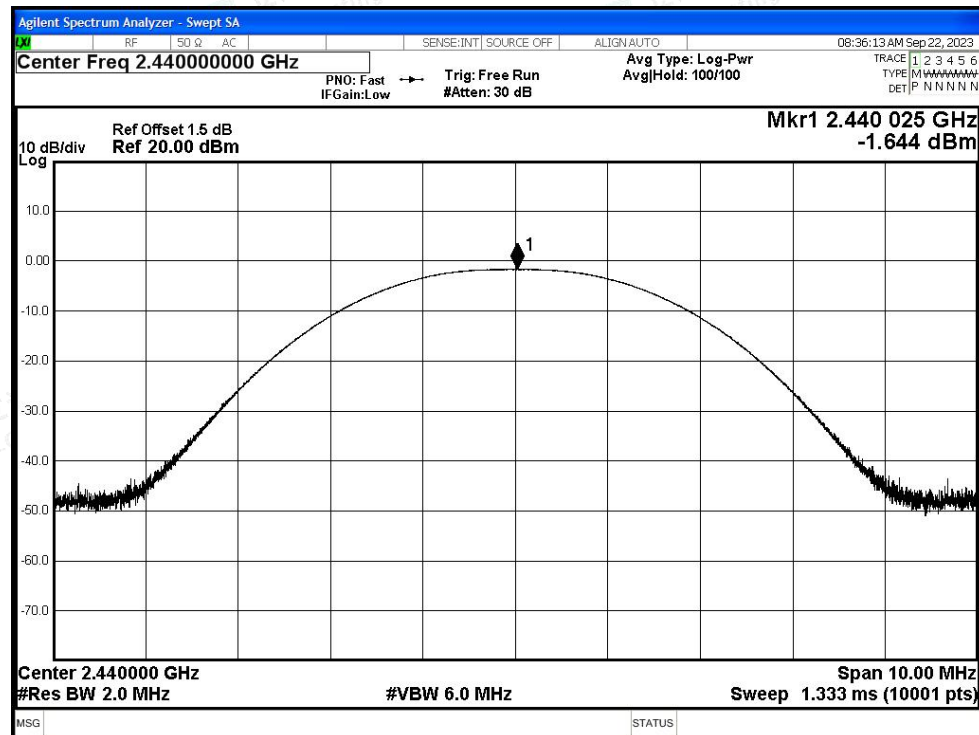


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

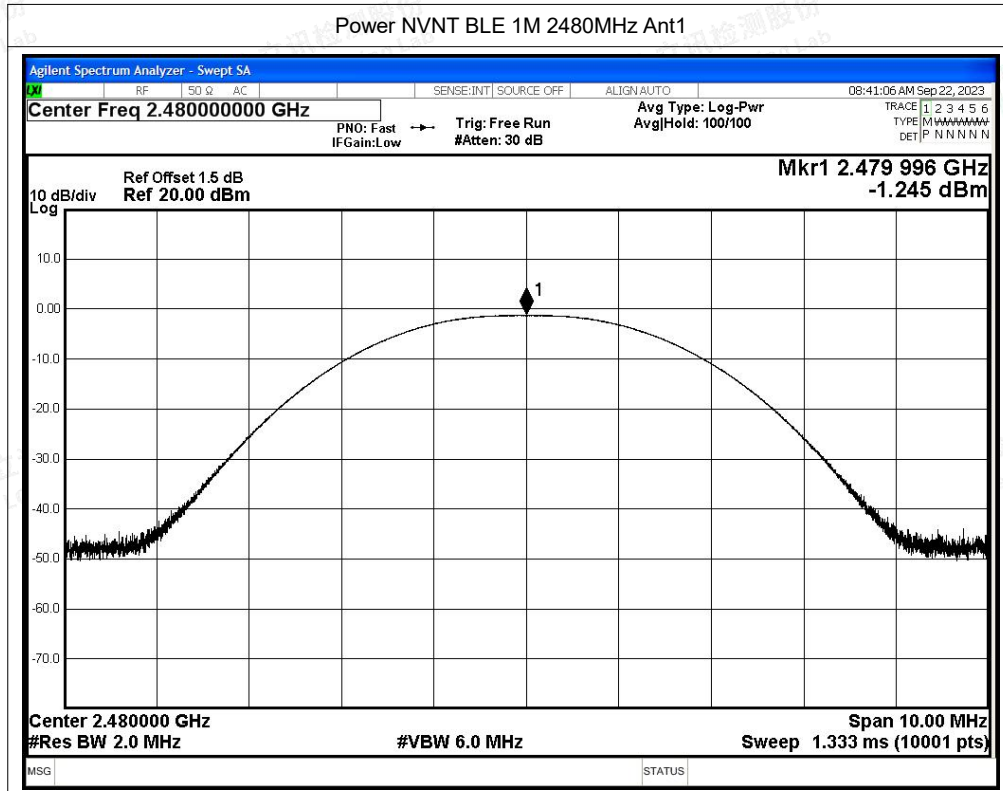


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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.82	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.3	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.34	8	Pass



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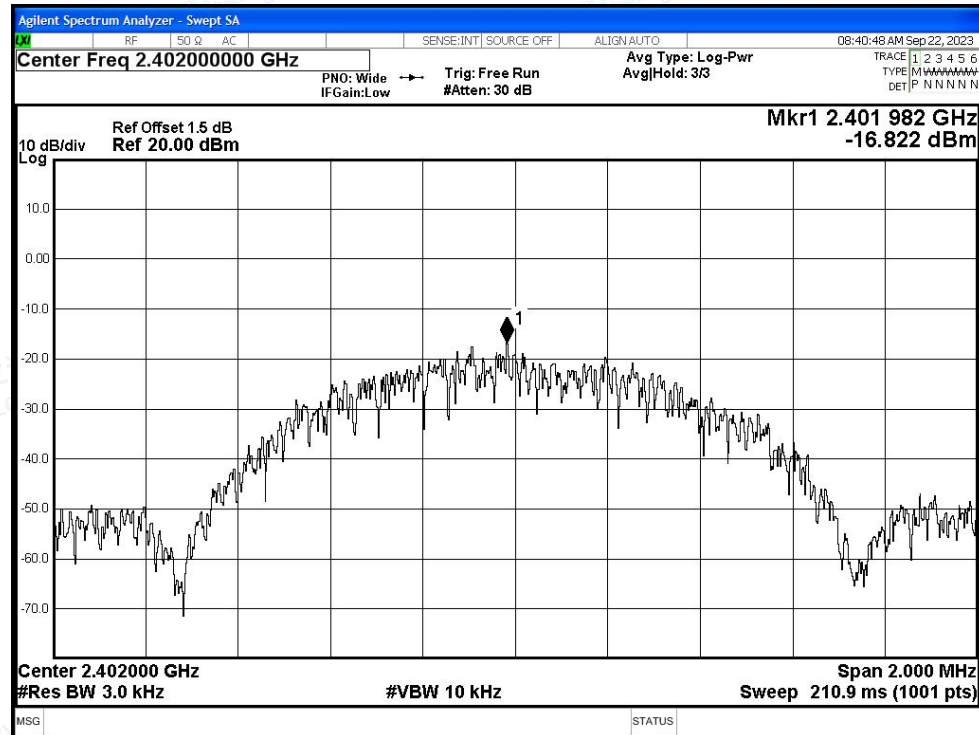
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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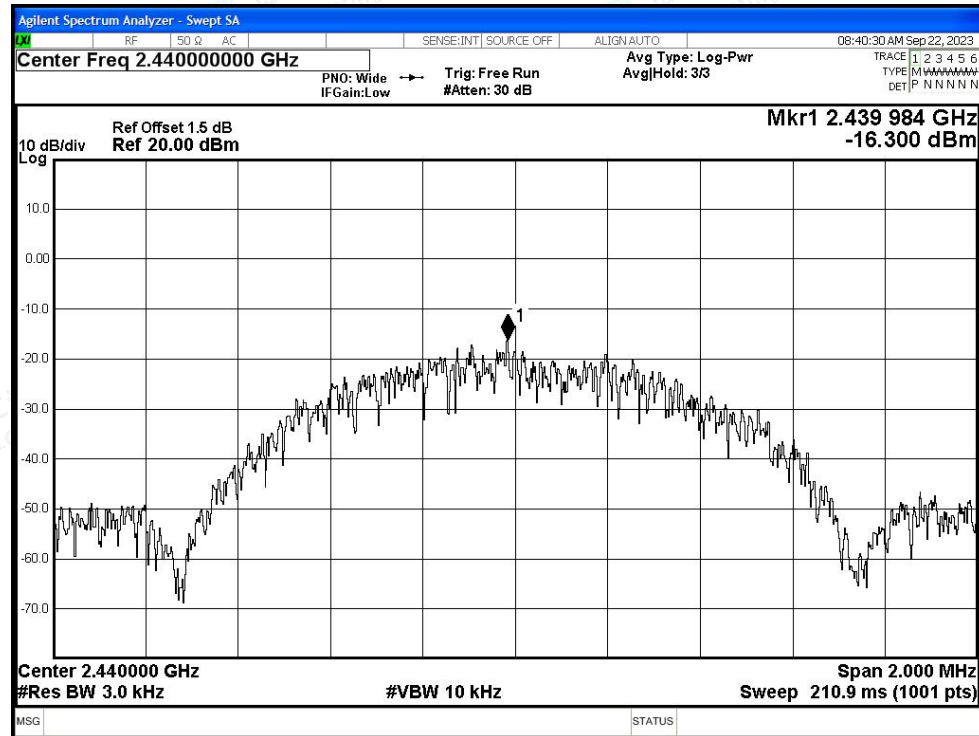


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

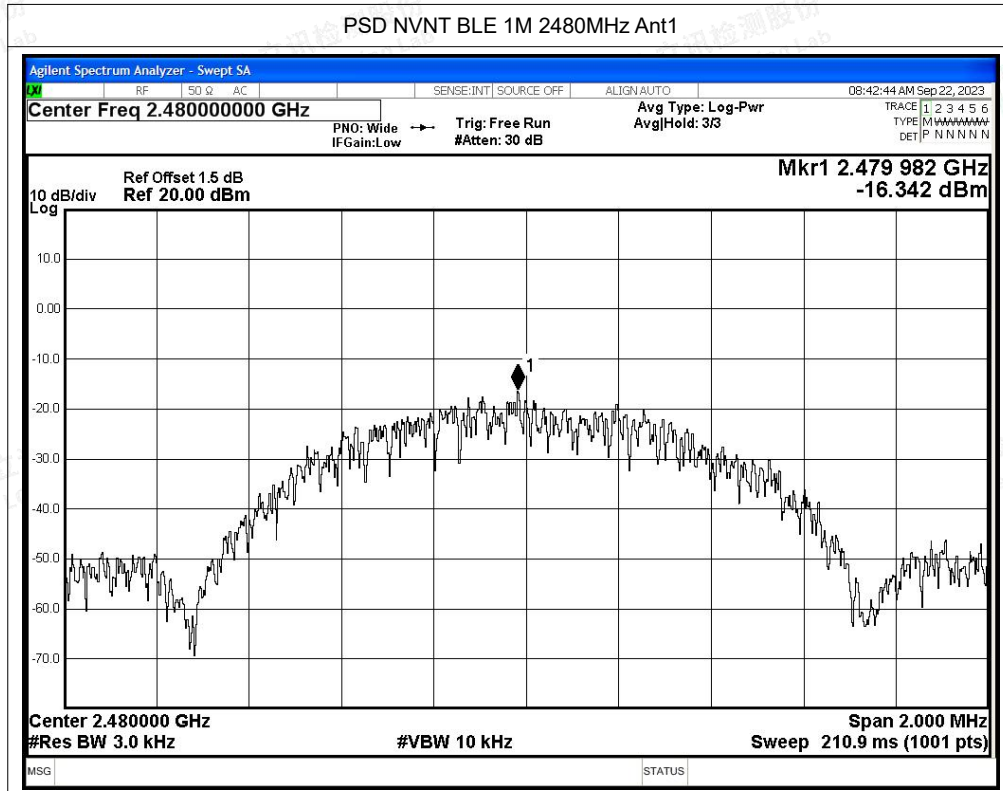


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A.4 Band Edge

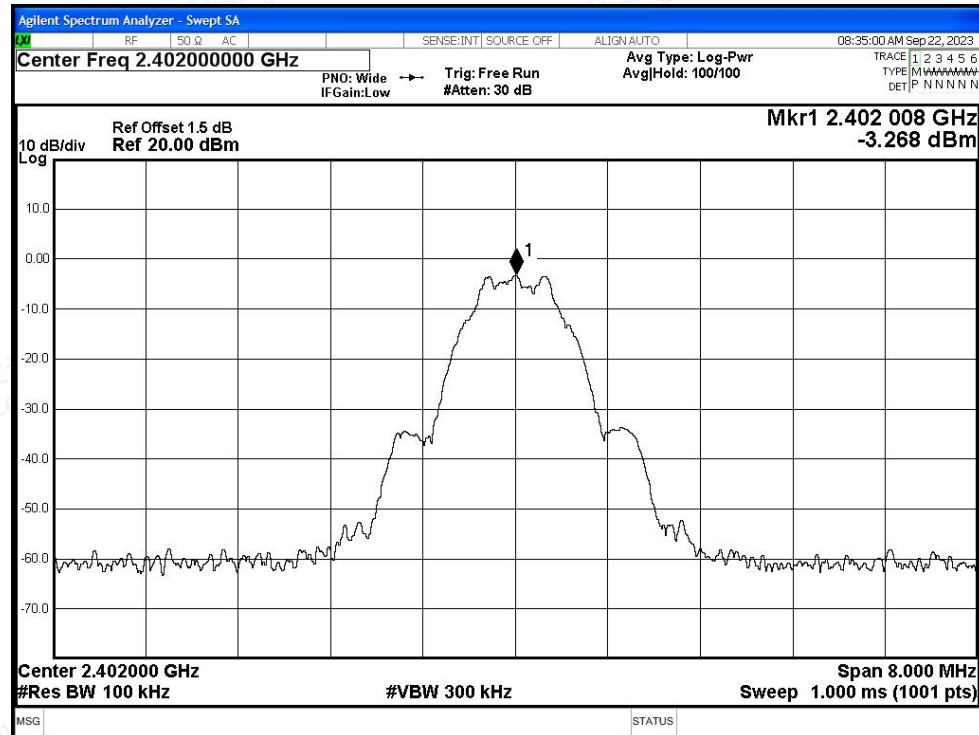
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.8	-20	Pass



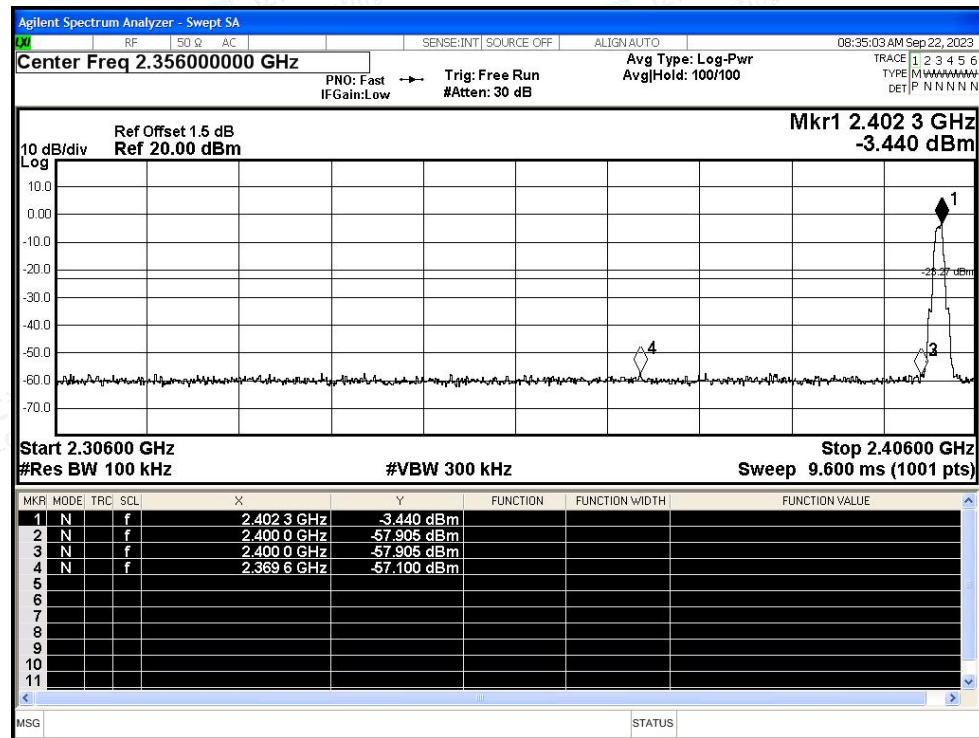


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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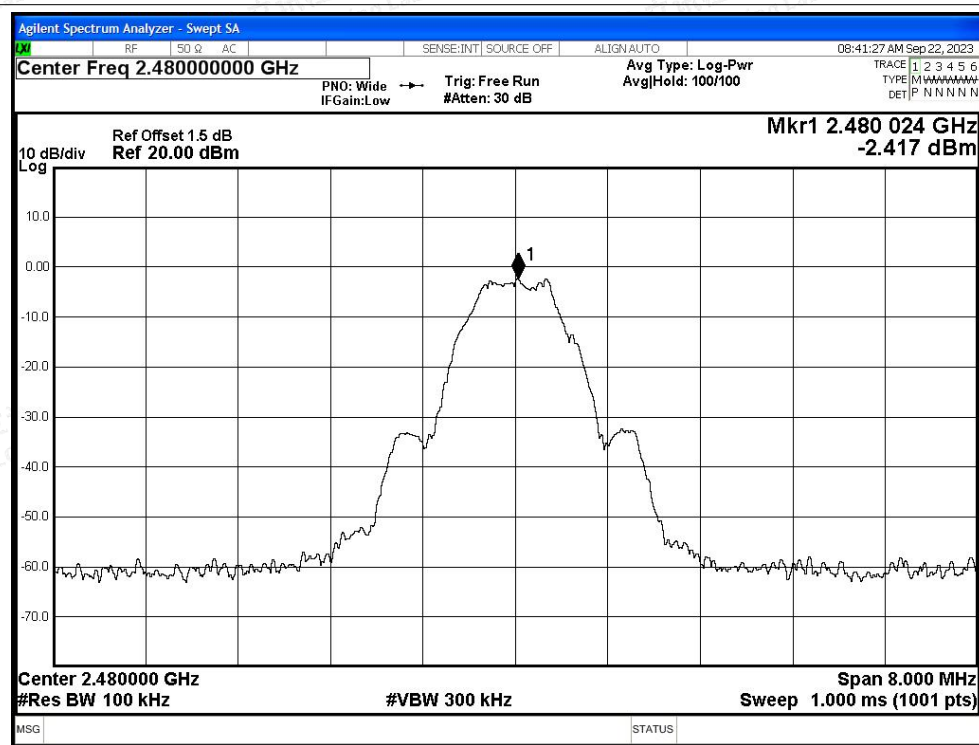
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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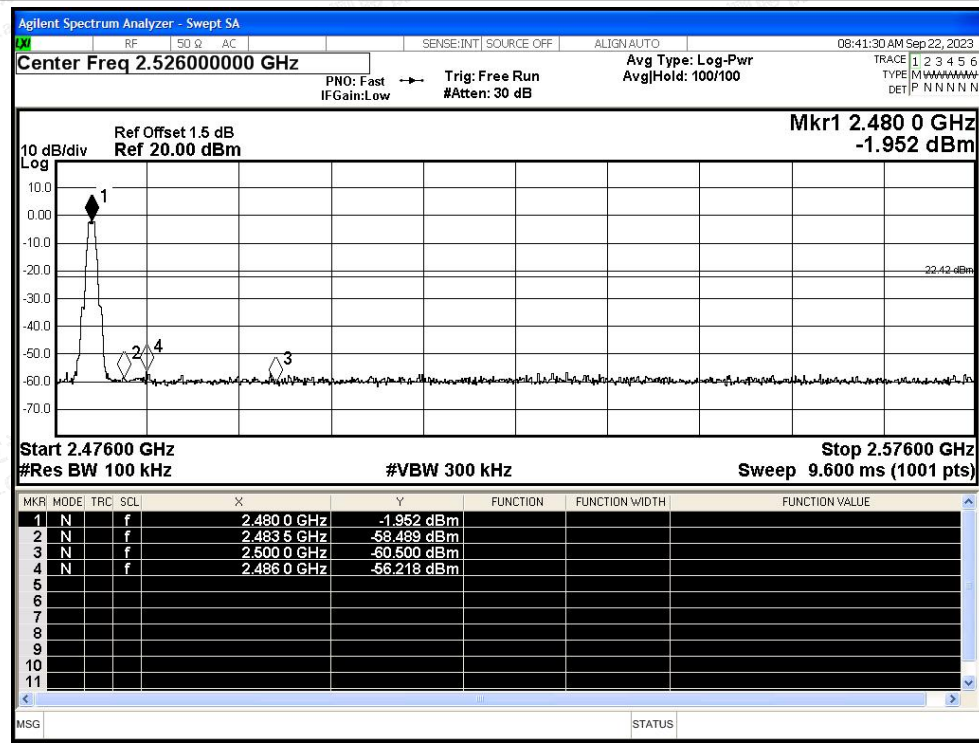
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.22	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.09	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.62	-20	Pass



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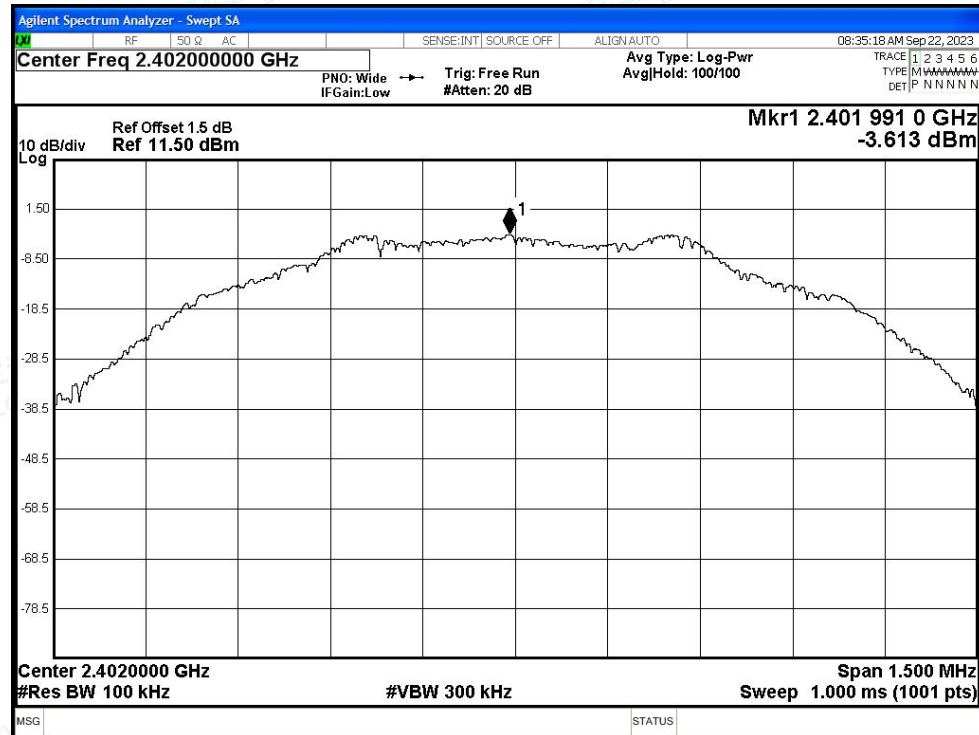
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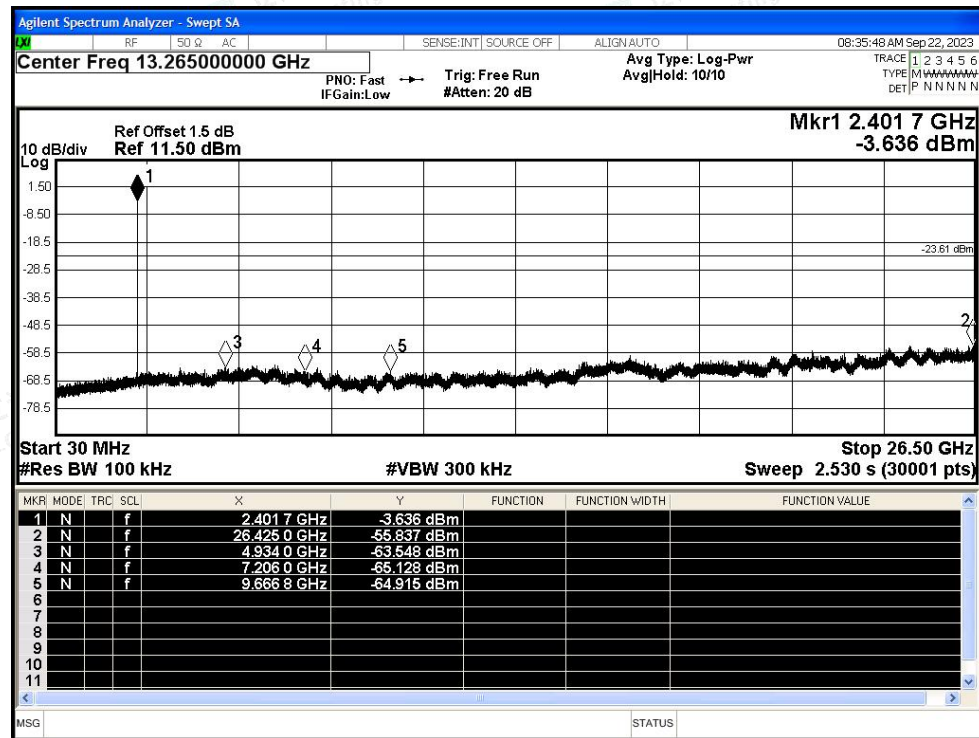


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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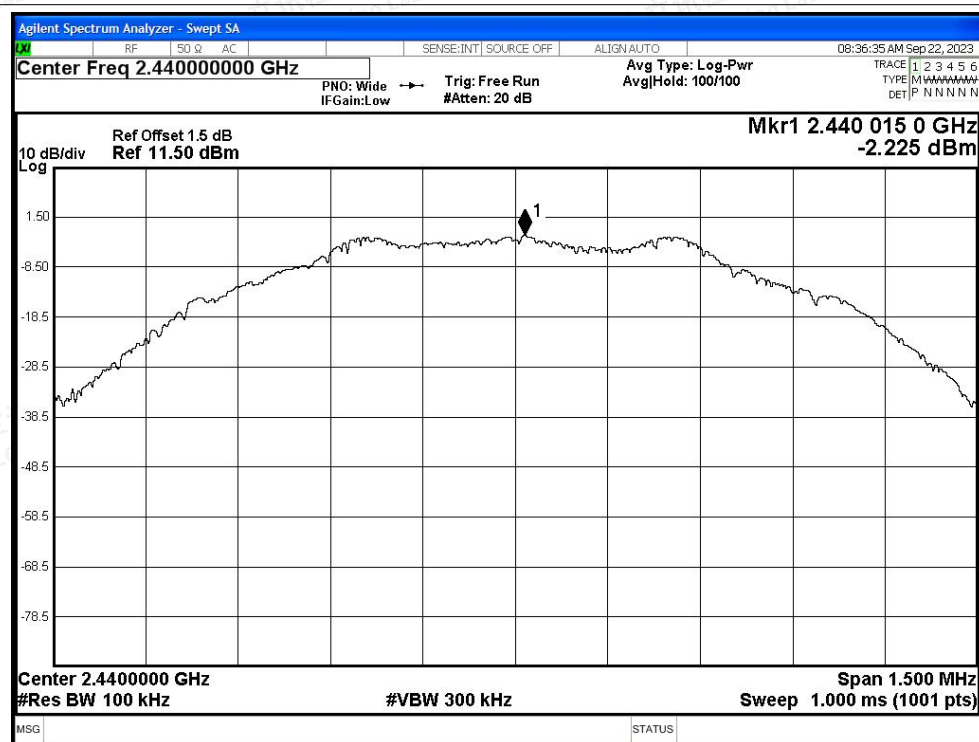
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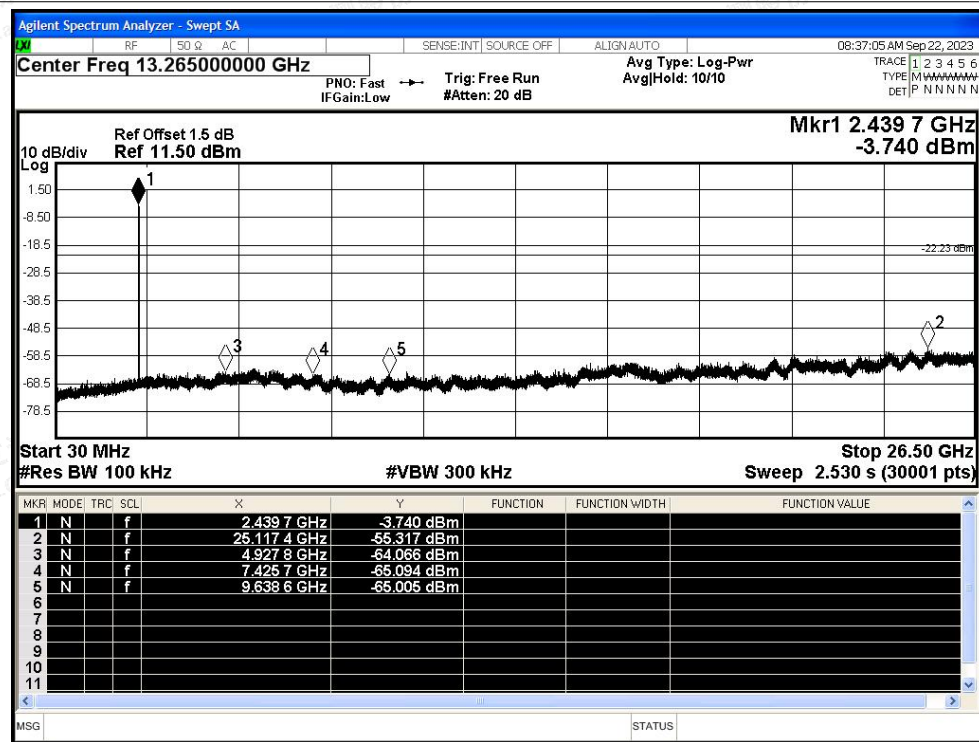
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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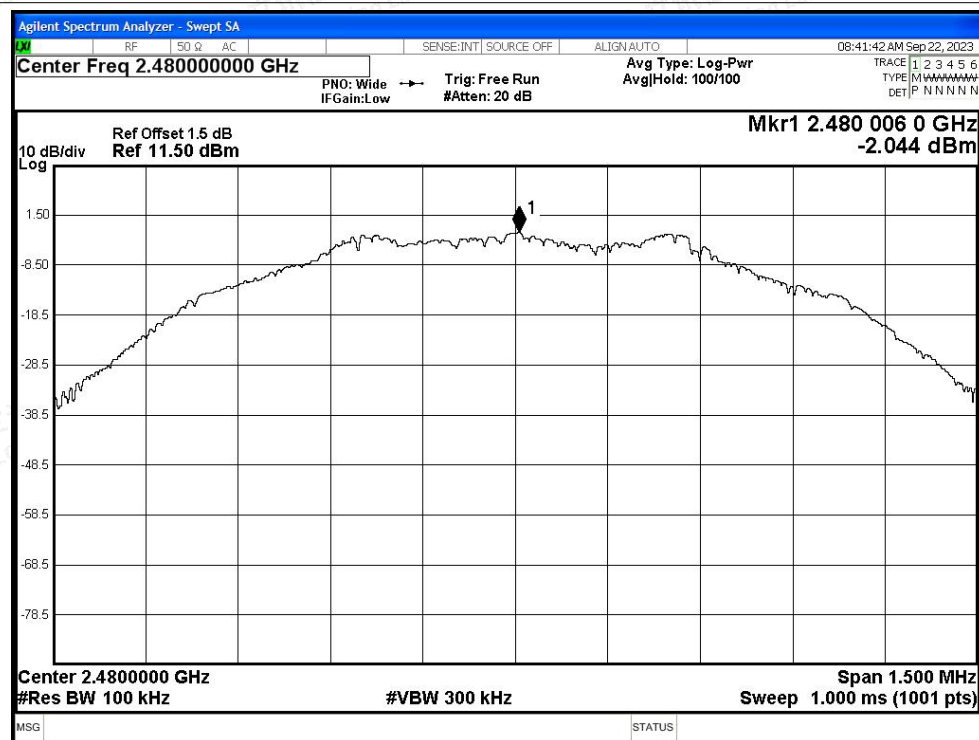
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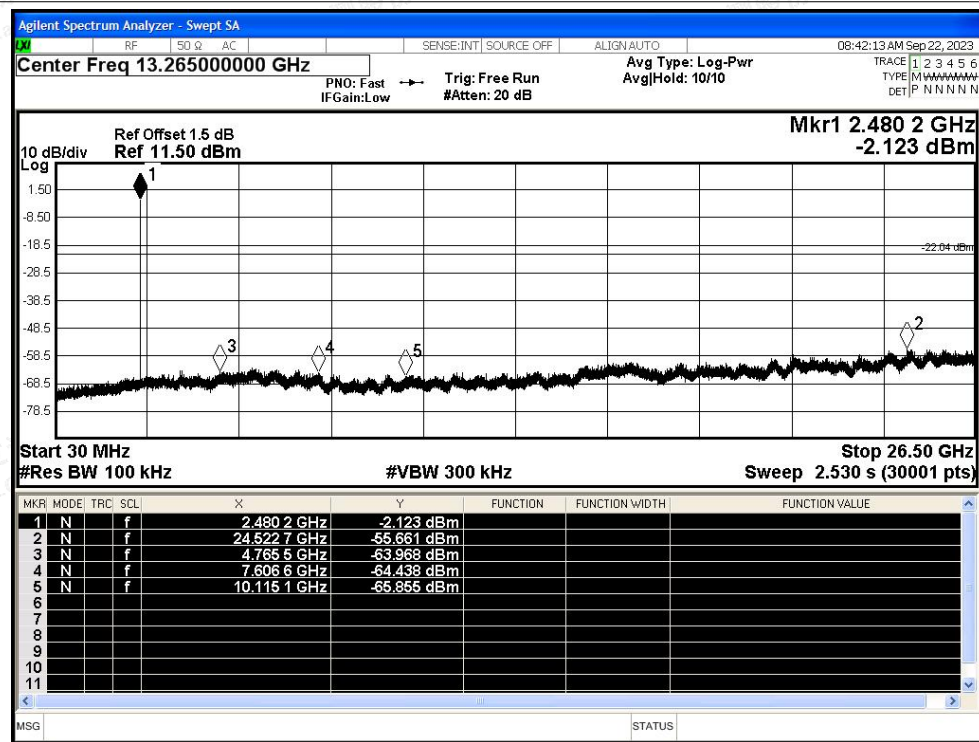
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2440	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2480	Ant1	61.36	2.12	2.61



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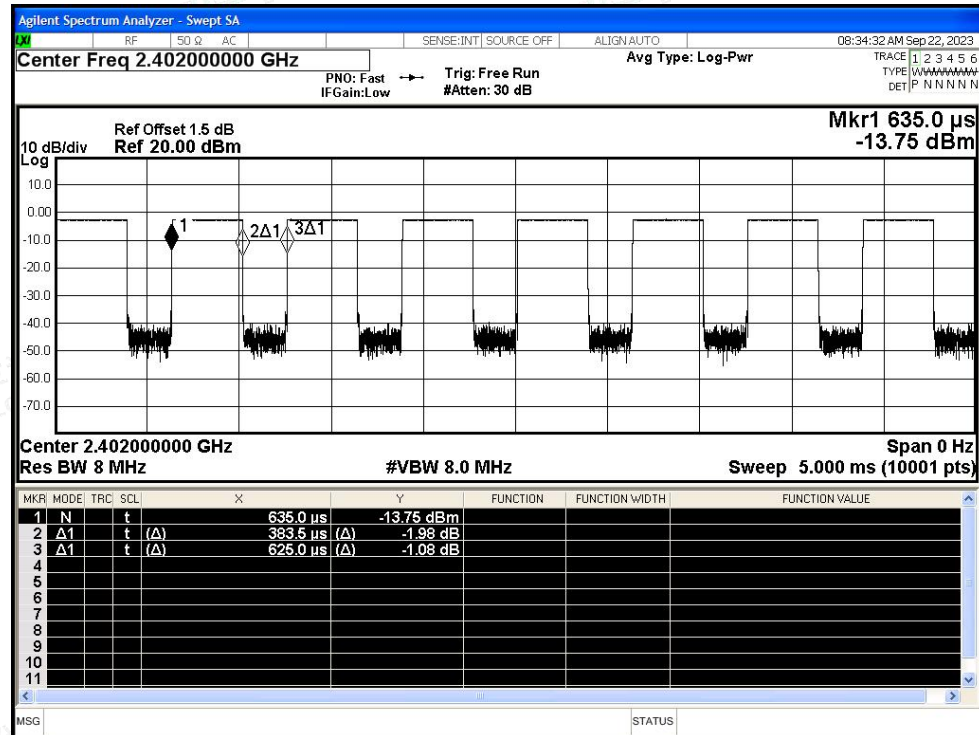
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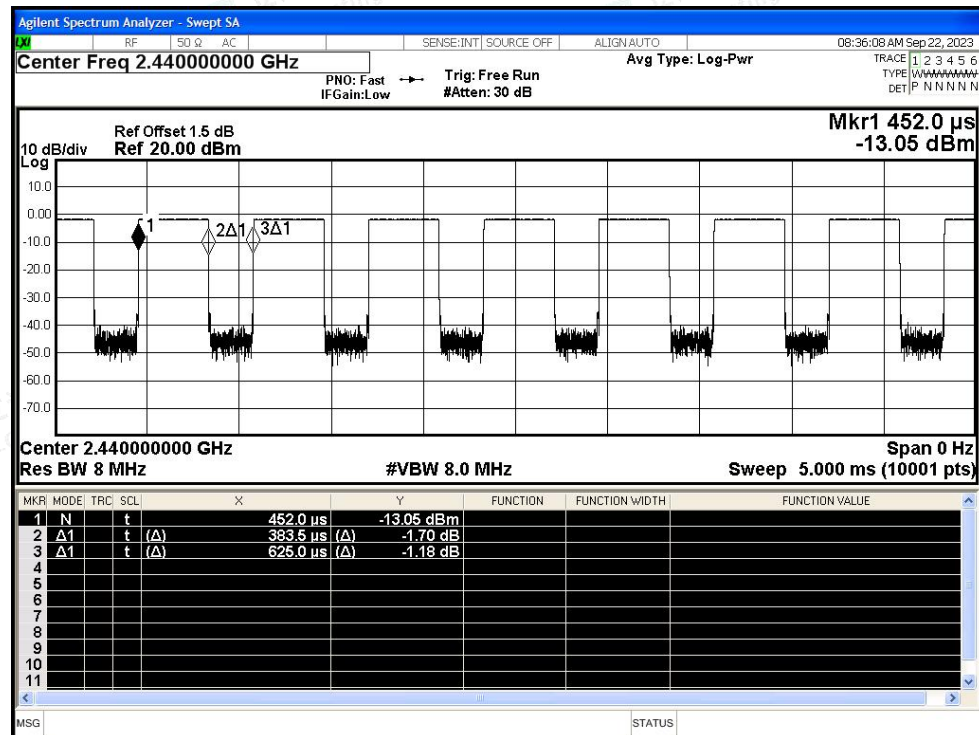


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

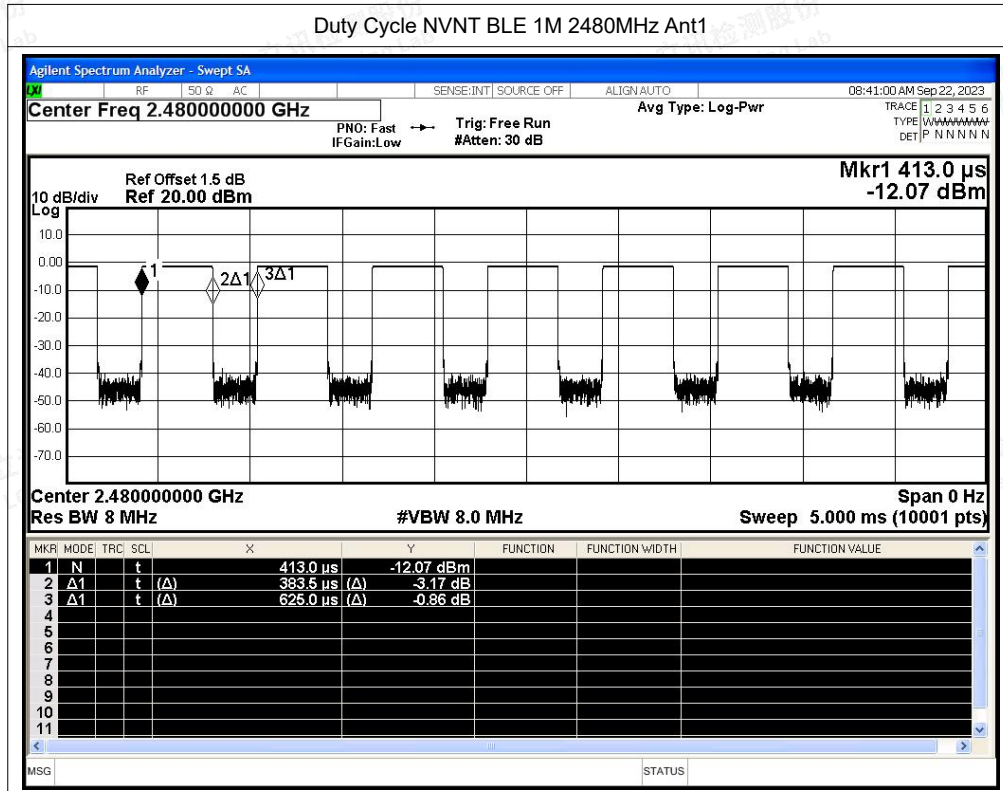


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.66	2	45.6	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.44	2	37.82	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2355.12	-46.98	2	50.28	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.392	-58.84	2	38.42	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.56	2	47.7	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.51	2	37.75	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.87	2	47.39	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.94	2	38.32	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2493.448	-46.7	2	50.56	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2492.392	-58.68	2	38.58	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.09	2	47.17	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.2	2	38.06	Average	54	Pass



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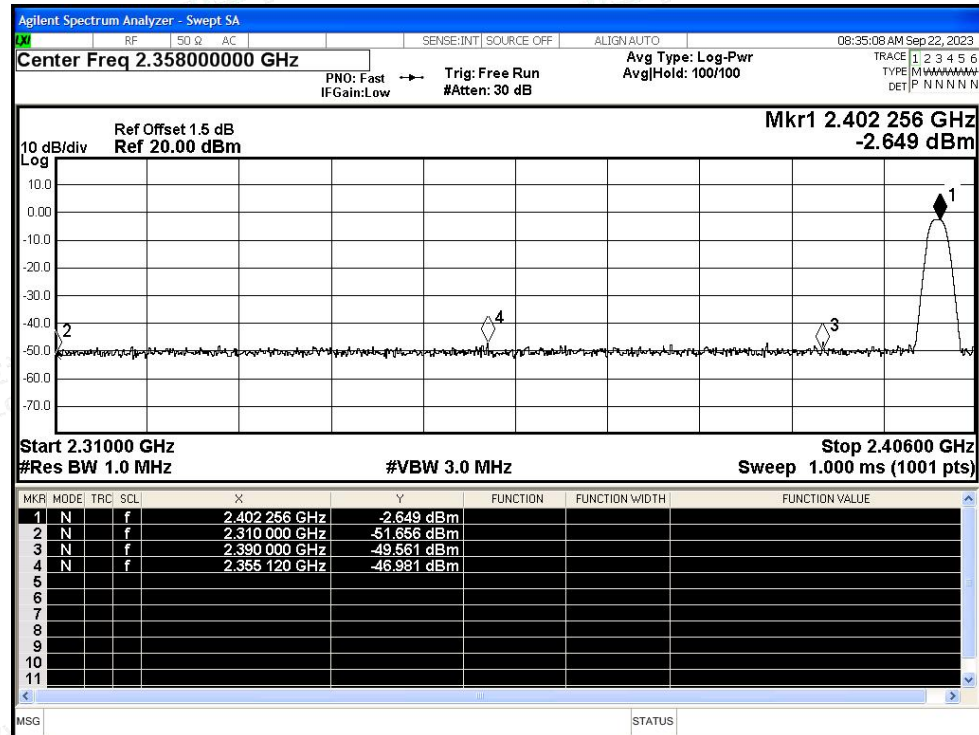
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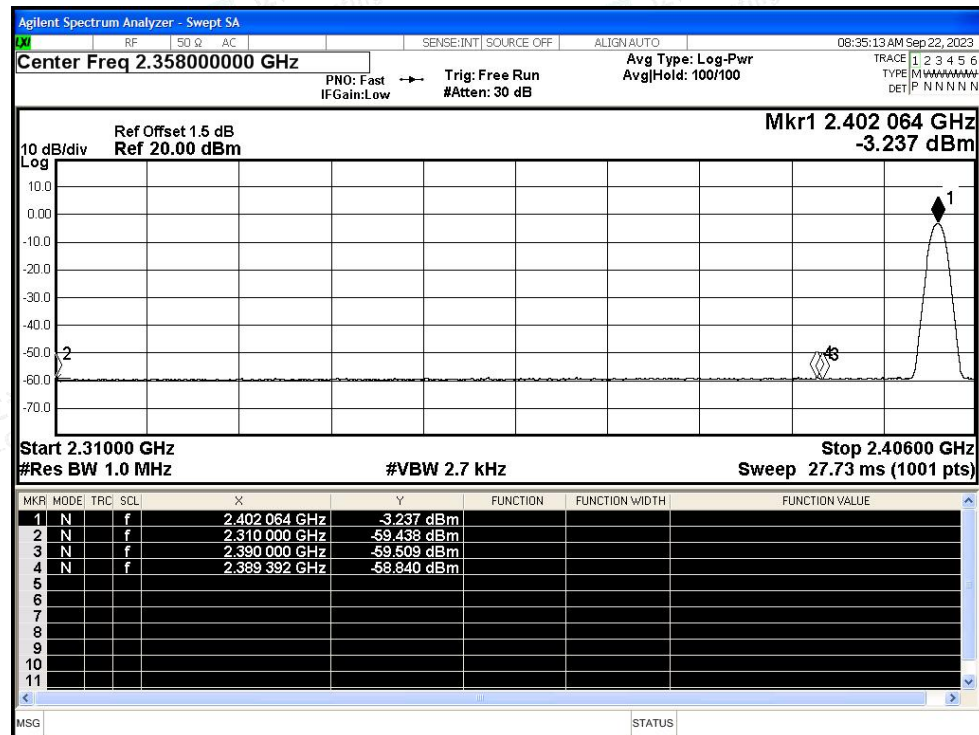


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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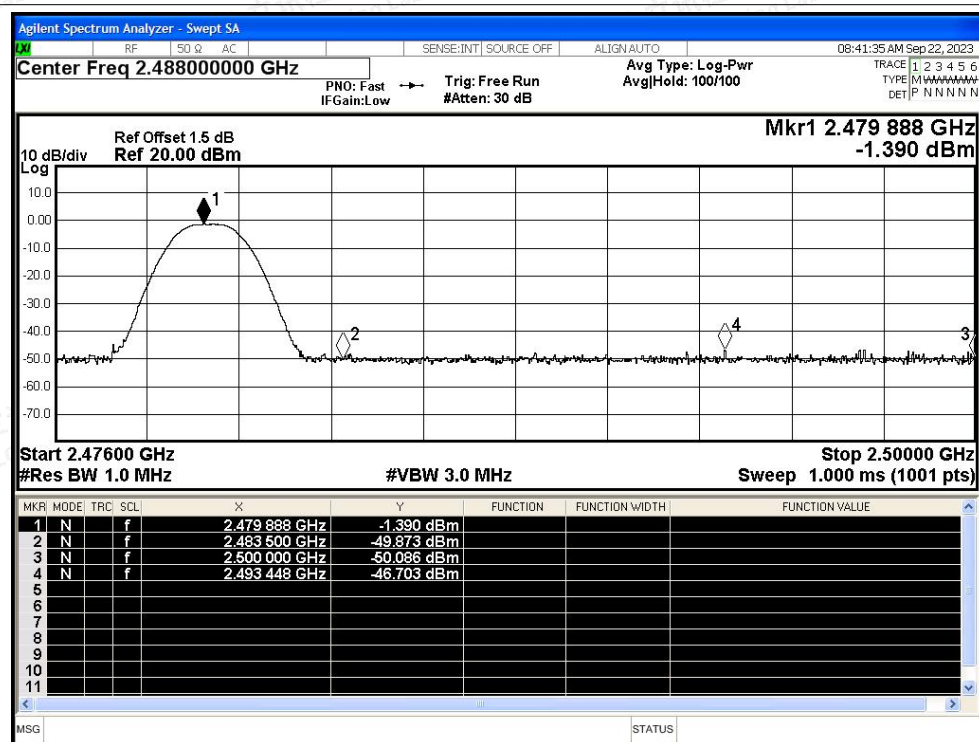
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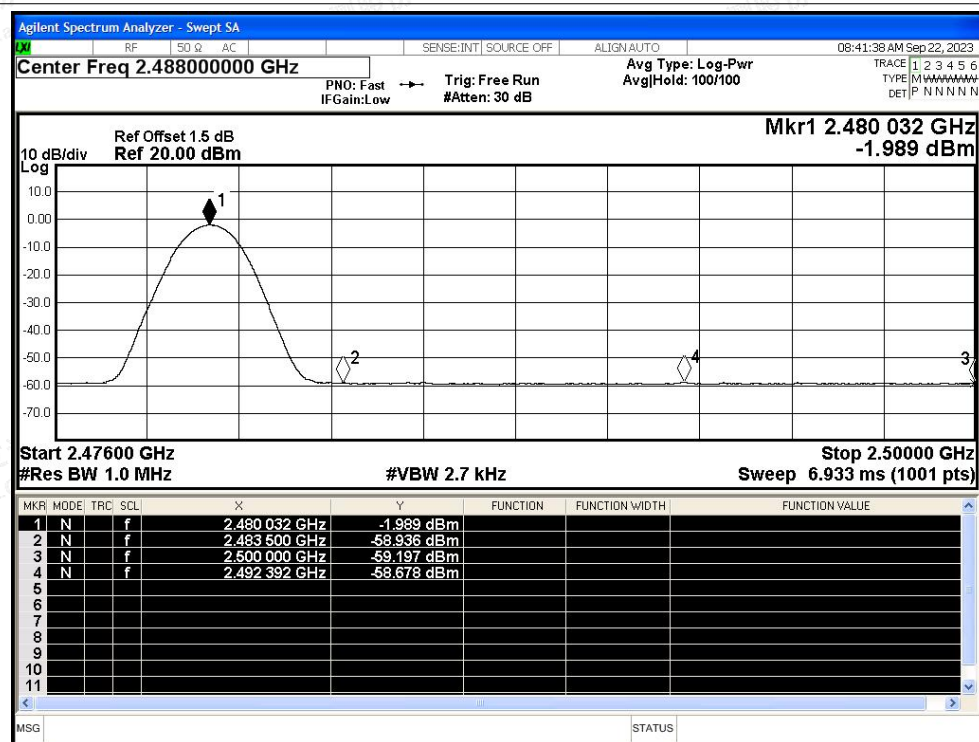
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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